Receiving Report Date: Dart P/O: Supplier: Release Note Attached: Yes Packing Slip: No Yes Invoice: Yes No Waybill Attached: Yes Shipment Complete: QC6 Inspection No Receipt: Cash N/A N/A N/A 7 Work Order Discrepancies Quantity Quantity Quantity Quantity Part Comments Description Received Returned Short Ordered Number Initials of receiver (if shipment OK) Level 1/2 Production/Admin: Location Date Received/Costing Initial

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Purchase Order Receipt Listing

Tuesday, December 18, 2012 2:37:18 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO18600 Receipt Dates from 12/18/2012 to 12/18/2012 All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Project ID Nbr/ Insp Req) Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-COP001 Thysse	Thyssenkrupp Materials CA Ltd			4	÷			
PO18600			5-f	12/17/2012-12/18/2012	2/18/2012	12:0000	-\$18.87	0.0000	0	\$226.44
САД	No	7075 T6 BAR 1.500 f x 1.500 124030	f (12.0000	DESJ02		\$226.44	0.0000	0	
	2	M7075T6B1.500X8.5 f	1.5 f	12/17/2012 12/18/2012	2/18/2012	12.0400	\$77.40	0.0000	0	\$931.93
	No	7075-T6 BAR 1.500' f X 8.500" 124030		12.0400	DESJ02		\$931.93	0.0000	0	
	3.3	M7075T6B1.750X04. f 500	14. f	12/17/2012 12/18/2012	2/18/2012	12.0400	\$49.48	0.0000	0	\$595.79
	0N 0	7075-T6 BAR 1.750" X 4.500" 124030)" £	12.0400	DESJ02		\$595.79	0.0000	0	
	4	M7075T6B3.000X7.5 f 00	.5 f	12/17/2012 12/18/2012	2/18/2012	12.7500	\$108.50	0.0000	0	\$1,383.34
	No	7075-T6 BAR 3.000' X 7.500" 124030	y f	12.0400	DESJ02		\$1,383.34	0.0000	0	
	5	M7075T6B4.000X4.5 f 00	.5 f	12/17/2012 12/18/2012	2/18/2012	8.0000	\$117.25	0.0000	0	\$937.96
	No No	7075-T6 BAR 4.000' X 4.500" 124030) f	8.0000	DESJ02		\$937.96	0.0000	0	
	9	M7075T6B6.000X1.0 f 00	.0 f	12/17/2012 12/18/2012	2/18/2012	8.0000	\$41.77	0.0000	0	\$334.12
	No No	7075-T6 BAR 6.000" f X 1.000" 124030	44	8.0000	DES102		\$334.12	0.0000	0	4

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Book Amt	\$1,191.58		\$2,813.89	
MRB Qty/ MRB Reject Qty	0	0	0	0
Inspected Qty/ Rejected Qty (PO U/M)	0.0000	0.0000	0.0000	0.0000
Cost Per Unit/ Recv Value	\$198.60	\$1,191.58	\$77.90	\$2,813.89
Recv Qty (PO U/M)	6.0000		36.1200	
Required Date Recv Required Qty Date/ Recv Emp	12/17/2012 12/18/2012	6.0000 DESJ02	12/17/2012 12/18/2012	36.1200 DESJ02
PO U/M / Stock U/M	Thyssenkrupp Materials CA Ltd	R 6.000' f	.000X2.0 f	3.7.000" f
Project ID Reference/ Description/ Cert Std	VC-COP001 M7075T6E 00	7075-T6 BAR 6.000' f X 6.000'' 124030	M7075T6B7.000X2.0 f 00	7075-T6 BAR 7.000" f X 2.000" 124030
Line Nbr/ Insp Req	lor Name 7	No	∞	o _N
Purchase Order ID/ Curr Type	VendorID\Vendor Name PO18600 7	CAD		

0.0000

Total Received Quantity:
Total Qty to Inspect (PO U/M):
Total Reject Quantity:
Total Receipt Value:

Total Balance Due Quantity:

0.0000 \$8,415.06 0.0000 OF

THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 905-738-9033

LADING Ship Date 14Dec12 at 14:14 From PFW Probill VIM TRANSFER Via FOB CONCORD Frt PREPAID 0- 0 Manifest Route Vhcle

STAN IVERS (905-532-1350) Slp Sold To: (20115)

DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7

HAWKESBURY, ON K6A 1K7 Tel: 613-632-9577 Fax: 613-632-1053

BILL OF LADING 1) Our Order PEC-517690- 1 Your PO # 18600 Part # 4-6 DAYS ALL 7075 ALUMINUM SOUARE BAR 7075-T651 QQ-A-225/9

1.50" X 144.0000"

Ship To: DART AEROSPACE

1270 ABERDEEN ST

Heat Number MA012003015 545244 2) Our Order PEC-517690- 2 Your PO # 18600

Rel # Part # QQ-A-250/12 PLATE ALUMINUM PLATE 7075-T651

Tag No

1.50" THICK X 8.5000" X 144.5000" 1 8.5000" A THE Tag No 545607 Tag No

Quantity √ 8.53 SFT

Quantity

12 FT

PCS Wt LBS 1

PEC 799838

No:

3) Our Order PEC-517690- 3 Your PO # 18600 Rel # Part # 00-A-250/12 PLATE ALUMINUM PLATE 7075-T651

1.750" THICK X 4.5000" X 144.5000"

Heat Number Taq No 270661 545606

Quantity PCS.

4.52 SFT 1

PCS

Wt LBS 120

4) Our Order PEC-517690- 4 Your PO # 18600 Part # QQ-A-250/12 PLATE Rel # Rel #

ALUMINUM PLATE 7075-T651

3.00" THICK X 7.5000" X 153.0000" Heat Number Tag No

545585 324111

Quantity 7.97 SFT

Wt LBS 348

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÈTRE RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

DATE

BILL OF LA Ship From: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033 Ship To: (1) DART AEROSPACE	A D I N G No: PEC 799838 Ship Date 14Dec12 at 14:14 From PFW Probill Via VIM TRANSFER FOB CONCORD Frt PREPAID Route 0- 0 Manifest Vhcle Trailer Slp STAN IVERS (905-532-1350) Sold To: (20115) DART AEROSPACE
BILLOFL	ADING
5) Our Order PEC-517690- 5 Your PO # Part # QQ-A-250/12 PLATE ALUMINUM PLATE 7075-T651 4.00" THICK X 4.5000" X 96.0000" Heat Number Tag No 324091 545853	Rel # Quantity PCS Wt LBS
6) Our Order PEC-517690- 6 Your PO # Part # QQ-A-250/12 PLATE ALUMINUM PLATE 7075-T651 1.00" THICK X 6.0000" X 96.0000" Heat Number Tag No 212034 545608	Rel # . Quantity PCS Wt LBS
7) Our Order PEC-517690- 7 Your PO # Part # QQ-A-250/12 PLATE ALUMINUM PLATE 7075-T651 6.00" THICK X 6.0000" X 72.0000" Heat Number Tag No 633884 545851	# 18600 Rel # Quantity PCS Wt LBS 3.00 SFT 1 262
8) Our Order PEC-517690- 8 Your PO # Part # QQ-A-250/12 PLATE ALUMINUM PLATE 7075-T651 2.00" THICK X 7.0000" X 144.5000" Heat Number Tag No 276151 545609	# 18600 Rel # Quantity PCS / Wt LBS 21.07 SFT 3 641
	Tags PCS LBS TOTAL: 8 10 1845
Heat Number *** Chemical Analy MA012003015 Page: 2Continued	ysis *** /////
	·

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

DATE

PEC 799838 No: LADING BILL $O^{\dagger}F$ Ship Date 14Dec12 at 14:14 From PFW Ship From: Probill THYSSENKRUPP MATERIALS NA VIM TRANSFER Via 2821 LANGSTAFF ROAD CONCORD FOB CONCORD, ONTARIO L4K 5C6 PREPAID Frt Tel: 905 669 9444 Fax: 905-738-9033 0- 0 Manifest Route Trailer Vhcle STAN IVERS (905-532-1350) Slp (20115)Sold To: Ship To: DART AEROSPACE DART AEROSPACE OF LADING BILLL

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL 1 TUBE, 4 SKIDS G.W. 1941 LBS

ITEM (1) TUBE (2,3,6,8) SKID ITEMS ITEM (4) SKID ITEM (5) SKID ITEM (7) SKID

****** CLOSED FOR THE HOLIDAYS ******* ON DEC. 25TH & 26TH, 31ST & JAN. 1ST. WE ARE OPENED FOR BUSINESS ON DEC. 24, 27 & 28. HAVE A HAPPY HOLIDAY SEASON! *CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA *** 9:00 AM TO 4:00 PM CONCORD, ONT.* **** TEL. 800-926-2600 **** *************** WE STOCK STAINLESS STEEL PLEASE LET US QUOTE YOUR NEXT REQUIREMENT **************** ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER. ***

Page: 3 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Certified Inspection Report

Ship To

Copper Brass Sales

Santa Fe Springs, CA 906 13338 Orden Dr. Building Copper Brass Sales

5400146469 Customer P.O. No.

Customer

06/30/12 00:25:14

Alcoa-Inc.

Massena Operations

Customer Part No. ALSQ00010) part of the description, or as previously agreed to with customer and that samples representative of the been found to meet the applicable requirements described herein, including any specifications forming a We hereby certify that the material covered in this report has been inspected in accordance with, and has Park Avenue East, Massena, NY 13662 Alcoa Order No. MMC-A3532- -010 Govt. Contract No.

Manufactured under an ISO/TS 16949 registered quality management system

material met the composition limits and have the mechanical properties shown on the face of this sheet

1.50000 IN 724 lbs Melted and manufactured in the USA. Product CFRB-CF SQ. Shape S Config 12 FT Specific Length Quality Assurance Manager QRR R BOL 000160411

Specifications:

Alloy - Temper Date Shipped

06/29/12 7075-T651

Weight Shipped

AMS 4123H (Except Marking) QQA-225/9E AMS-QQA-225/9E ASTM B211-12

conforms to T6 requirements

Product produced and marked to the requirements of AMS-QQ-A-225/9 also meets the requirements of QQ-A-225/9. Product produced and marked to the requirements of QQ-A-225/9 also meets the requirements of AMS-QQ-A-225/9.

Linguist of the control of the population of the												
	Test	Test	Test	Test	Test	Test	Test	Test	St	Test	1esi	
TEST REQUIREMENTS	U.T.S.	T.Y.S.	%Elong									
Max:	77.0	66.0	07.0			100			-			,
												7
Test Results	Test	Test	Test	Test	Test	Test	Test	Test	st	Test	lest	18
No. of Tests	U.T.S.	T.Y.S.	%Elong									
	81.9	74.5	15.5									ર
and the second of the control of the second	81.9	74.5	15.5	AND A COLUMN TO SERVICE AND ADDRESS OF THE PARTY OF THE P					-		The section of the section	
TEST ABBREVIATIONS		<u>T.Y.S.</u>		Tensile Yield Strength KSI	KS		%	%Elong Elongation % in 2"	longation '	% in 2"		 W
ŝ	s (in Weight %)		,)
15%	%FE %	%CU %MN	%MG	%CR	%ZN	%П	%Others	1	%AL			C
MAX		0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem		ì	7/
		N	2.1	0.18	5.1			Total				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

NOTES:

Trough Charles Co. Co. Co.													
	0/.0		%FF	%CII	%MN	%MG	%CR	NZ%	%TI	%OE	%0Т	%AL	
LOT/WORK CAUTA	/00) 01	200	, ,			;	3	30.0	37.075	Dom	_
	-	0.05	0.14	1.7	0.01	2.5	0.79	5.0	0.02	L/ 0.00	F/ 0.70	Nem	
	-		:	;		•	• •	1	3				
AFA 04 000 00 00 4 5	MN 0.05	05	0.14	1.7	0.01	2.5	0.19	5.8	0.02				
NING LOCOUT O	-												

This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

"Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product

From: ThyssenKrupp Materials NA

ECAD Del: 2402198350

Cust. THYSSENKRUPP MATERIALS NA -

WCC:

33.000 LB

Part:

PO: PEC# 244320

Date

12/06/2012

CERTIFIED INSPECTION REPORT We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From:

RIVERDALE, IA.

2012-10-25 1447854 Ship Date B.L. No. 7456521 Customer Alcoa Item Invoice No. 1000422242-2 Alcoa No. Item DP-22242-2

P.O. No./Govt Contract No. 5400156031 Ln#: 0020 C&B G041005056R07

statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Per:

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this cartificate. The recording of tales, fictious, or otherwise fraudulent

Page of 2

Terrence Thom Quality Assurance Manager

Ship To: COPPER & BRASS SALES INC 1015 SAINT JEROME ST. MISHAWAKA 46544 IN

Rob Woodall
Director of Manufacturing Davenport Works

Rodd, Woodell

Item Description
1.53 IN TK (+.094 -0.00) X 60.5 IN W (+.375 1.63 IN TK (+.094 -0.00) X 60.5 IN W (+.375 0.000) X 144.5 IN IN (+.5 -0.0) (N) A/T 70750.000) X 144.5 IN IN (+.5 -0.0) (N) A/T 7075T651 RECTANGULAR MILL FINISH, SAWED. EXC_TK TL AMS-(
7651 RECTANGULAR MILL FINISH, SAWED. EXC_MRK,
750/12 IS 2007 EXC_MRK, TK TL AMS4045 REV K EXC_MRK, GROSS SKID WGT: 5000 LB CQR 0131000 REV 10 CUST 24 *** W/E 12-10-27 *** TK TL ASTMB209 REV 10 INTERLEAVED MAX CUST REQ 12-10-((MARKED)) KRAFT PAPER QUAN TOL +/-30 % AMS-QQ-A-

12/12/19

-72	1	Num
461909	461908	Package Ticket
0 H	642381	Lot
8422	4210	Weight
6	ω ω	Quantity
	PG Og	MON
	47348 47348	Inspector Clock Numbers

PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ- A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12F. PRODUCE PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/12 F ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12.

CQR: 0131000.10 -Specification Limits

Long Transv. n ijM Max 77.0 KSI KSI 67.0 TYS KSI EL4D PCT თ

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402201945

Part: 196.000 LB

PO: PEC# 244320

Date

12/11/2012

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From:

RIVERDALE, IA.

DP-22242-2

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law. We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet. 1447854 Ship Date 2012-10-25 B.L. No. 7456521 00000 Invoice No. 1000422242-2 Alcoa No. Item

P.O. No./Govt Contract No. 5400156031 Ln#: 0020 C&B Customer Alcoa Item G041005056R07

Page N of 2

DAS 12/12/19

Quality Assurance Manage

Rob Woodall

Director of Manufacturing Davenport Works Rod of Wooded

Alloy 7075 Lot: 642381 Cast Number H9043132 Tmpr T651 Chemical Composition CQR: 0131000.10 -Specification Limits (cont.) Long Transv. Chemical - OES Actuals Mechanical, Test No-> Physical, 0.06 0.40 0.50 2.0 0.30 2.9 0.28 6.1 0.20 0.05 1.2 2.1 0.18 5.1 FE CU 0.27 1.6 UTS KSI 84.4 84.6 84.6 , Metallography, Quantometer Results 0.01 TYS KSI 75.9 75.2 75.9 MG 2.5 PCT 11.7 11.2 11.2 EL4D CR 0.19 5.8 Other Other 0.02 0.15 Total Aluminum REMAIN

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402201945

196.000 LE

Wgt:

Part:

Date PO: 12/11/2012 PEC# 244320





93727



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS-TMX DIVISION 5450 E. HOME **FRESNO**

CA

COPPER & BRASS SALES P.O. BOX 5116 MI SOUTHFIELD

48086

SERIAL#: 20120626961802 PAGE 1 OF INCLUSION 961802 4075 COPPER&BR Constellium ORDER NO. CUSTOMER PURCHASE ORDER NO. & ITEM CERTIFICATION 050-868275 "Constellium Rolled Products, hereby certifies that metal 5400139755 ALLOY CLAD TEMPER GAUGE WINTH shipped under this order has been inspected and found in conformance with the requirements of the applicable 60.500 144.500 7075 00 T651 .78000 specifications as indicated herein. Any warranty is limited ITÉM ORDERED to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are MOLD PLATE-DIST GE SPEC PLATE, SAWED CUSTOMER SPECIFICATION MILL on file, subject to examination." Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA AMS-QQ-A-250/12 PART NUMBER B/L NUMBER DATE SHIPPED 06/28/12 ALFLR00996 961800 NO. OF PIECES GOVT, CONTRACT NO. WEIGHT SHIPPED 9,900

LOT	TEST	NO. OF	ULTIMATE S	TRENGTH K.S.I.	YIELL	D STRENGTH K.S.I.	ELONGA	TION %	COND	% IACS
NUMBER	DIRECTION	TESTS	MIN.	MAX.	MIN	MAX.	MIN.	MAX.	MIN	MAX
270651	ĹТ	2	79.6	81.2	69.4	4 70.8	12.5	13.5		
A11 m	ateria	1 c	ntained	in lot	270651	was cast	and manuf	actured	in the	USA.
270661	LT	2	**** T6 80.8	51 81.6	70.		*****	13.5		
All m	ateri	l co	ntained	in lot	270661	was cast	and manuf	factured	n the	USA.
ALL 1	OTS OI						O THE FOLI	OWING R	EQUIREM	ENTS
		AMS	4045K	and ast		Thysse Copper Custom P.O#:	POCH DUY elivery #: Duy	es Division : ∂∂	3	
C ALLOY	SILICON		IRON	COPPER	MANGANESE	MAGNESIUM	CHROMIUM	ZINC	TITANIUM	OTHERS
H			IIN. MAX.	MIN. MAX.	MIN. MAX.	MIN. MAX.	MIN. MAX.	MIN. MAX.	MIN. MAX.	EACH TOTA
SEE A	TUAL	CHEM	ICAL CON	HUST 1 IC		UMINUM REMAINDER				

Constellium



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS-TMX DIVISION 5450 E. HOME CA **FRESNO**

93727

COPPER & BRASS SALES P.O. BOX 5116 MI SOUTHFIELD

48086

SERIAL#: 20120626961802 PAGE 2 OF 3 INCLUSION COPPER&BR 961802 4075 Constellium ORDER NO. CUSTOMER PURCHASE ORDER NO. & ITEM CERTIFICATION *Constellium Rolled Products, hereby certifies that metal 050-868275 5400139755 shipped under this order has been inspected and found in LENGTH TEMPER GAUGE WIDTH ALLOY conformance with the requirements of the applicable 144.500 1.78000 60.500 00 T651 7075 specifications as indicated herein. Any warranty is limited ITEM ORDERED to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are MOLD PLATE-DIST GE SPEC PLATE, SAWED on file, subject to examination." MILL Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA AMS-QQ-A-250/12 PART NUMBER DATE SHIPPED B/L NUMBER 961800 GOVT. CONTRACT NO. 06/28/12 ALFLR00996 NO. OF PIECES WEIGHT SHIPPED 6 9,900

			ULTI	MATE STR	ENGTH	K.S.I.	Γ -	YIELD ST	RENGTH	K.S.i.		ELONG/	ATION %		C	OND %		
LOT NUMBER	TEST DIRECTION	NO. OF TESTS	MI			MAX.	М	IN.		MAX.		MIN.		MAX.	M:	[N	MAX	
270651 270661	C SI= CR= OTH C SI= CR=	0.04 0.20 ERS-1	ACH:	AC FE= ZN= .05 FE= ZN=	TUA 0.1 5.4 MA 0.1 5.4	L CHI 2 2 X. 0' 2	CU= TI= HER: CU= TI=	1.3 0.0 S TO 1.3 0.0	7 2 TAL: 7	MN= ZR= .15 MN= ZR=	0.0 0.0 CAN 0.0)3)1 (. AL	MG= REN	= 2.4 MAIND = 2.4 MAIND	7 ER 7			
												T		10	TITA	NIUM	нто	FRS
C ALLOY	SILICO		IRON		COPPE		MANGAN		MAGN		CHRON MIN.		ZIN MIN.	MAX.	MIN.	MAX.		TOTAL MAX.
H	1				AIN.			MAX.	MIN.	MAX.	MIN.	WAS.	1911/4-	.,,,,,,			NV-V-	- ARAV
SEE A	CTUAL	CHEM	TCAL	CUMI	rus!	LITUN												
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INCLUSION

050-868275

60.500 144.500

CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal

shipped under this order has been inspected and found in

conformance with the requirements of the applicable

specifications as indicated herein. Any warranty is limited



7075

ITEM ORDERED

P-860-155D (06/11)

COPPER & BRASS-TMX DIVISION 5450 E. HOME **FRESNO**

TEMPER

T651

CA

GAUGE

1.78000

93727

5400139755

COPPER&BR 961802 4075
CUSTOMER PURCHASE ORDER NO. & ITEM

CLAD.

00



COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

SERIAL#: 20120626961802 PAGE 3 OF

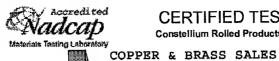
48086

			ATE-I								1	it shown on ral Terms ar						
			ATE,	SAWE	<u>) </u>	MILL	-					, subject to				•		
Α	MC-C	าก -	A-250	1/12							1	Constelliur R/	m Rolle	d Produc	cts Rav	enswood	d, LLC	;
	T NUMBE		M-250	1/12	B/L	NUMBER			DATE	SHIPPED	-	D	AVENC	O. BOX	68	CA LICA		
A	LFLE	5 U C	1996				96180	n	0.57	28/12			AAENS	۳00b, ۱	MV 2011	94 USA		
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ALUMINUM REMAINDER

3





CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

MI

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

TEMPER

T651

NO. OF PIECES

GALIGE

MILL

B/L NUMBER

3.00000

F60500

GOVT, CONTRACT NO.

P.O. BOX 5116 SOUTHFIELD

48086

46544

CUSTOMER PURCHASE ORDER NO. & ITEM

MOLD PLATE-DIST GE

SPEC PLATE, SAWED

5400157805

CUSTOMER SPECIFICATION AMS-QQ-A-250/12

ALFLR01006

10,635

ALLOY

7075

ITEM ORDERED

PART NUMBER

WEIGHT SHIPPED

COPPER&BR F60502 4075

00

INCLUSION Constellium ORDER NO.

WIDTH

110-512727

LENGTH

11/20/12

SERIAL#: 20121119F60502 PAGE 1 OF

CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in 73.000 153.000 conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA DATE SHIPPED

LOT	TEST	NO, OF	ULTIMATE	STREN	STH K.S.I.	YIEL	D STRENG	TH K.S.I.		ELONGA"	TION %		% IACS
NUMBER	DIRECTION		MIN.		MAX.	MIN.		MAX.		MIN.	MAX.	MIN	MAX
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P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Constellium



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

SERIAL#: 20121119F60502

48086

46544

COPPER&BR F60502 4075
CUSTOMER PURCHASE ORDER NO. & ITEM

INCLUSION S. Constellium ORDER NO.

CERTIFICATION
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance, with the requirements of the applicable.

PAGE

2 OF

3

conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are

on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

Rodney J. Felty
Rodney J. Felty

5400157805 110-512727 ALLOY TEMPER GAUGE WIDTH LENGTH 3.00000 7075 00 T651 153.000 73.000 TEM ÖRDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS-QQ-A-250/12 PART NUMBER DATE SHIPPED B/L NUMBER ALFLR01006 F60500 11/20/12 WEIGHT SHIPPED NO. OF PIECES GOVT, CONTRACT NO. 3 10,635

LOT	TEST	NO. OF	ULTIMATE	STRENG	TH K.S.I.		YIELD	STRENGT	H K.S.I.		ELON	IGATION	%	C	CINC		
NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.		MAX.	M.	IN	MA	<u> </u>
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H		AX MI		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MAX.	MAX.
SEE AC	TUAL	CHEMI	CAL CO	MPOS	ITIO	Ŋ											
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P-860-155D (06/11)





Constellium Rolled Products Ravenswood, LLC

MI

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD 48086

46544

CUSTOMER PURCHASE ORDER NO. & ITEM

COPPER&BR F60502 4075

INCLUSION

Constellium ORDER NO.

SERIAL#: 20121119F60502

PAGE

3

CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

10,63		DE PIECES	3 GOVI. CONTRACT	NO.	
WEIGHT SHIPPED	NO (OF PIECES	IGOVT, CONTRACT		_,,
ALFLR0100	6		F6050	00 1	1/20/12
PART NUMBER			B/L NUMBER		DATE SHIPPED
AMS - QQ - A -		12			
SPEC PLAT		AWED	MILL		
MOLD PLAT	E-DI	ST GE			
ITEM ORDERED					
7075	00	T651	3.00000	73.000	153.000
ALLOY	CLAD.	TEMPER	GAUGE	WIDTH	LENGTH
540015780				110-512	727

										V	
LOT TEST DIRECTIO	NO. OF	ULTIMAT	E STRENGT	H K.S.I.	YIEI	_D STRENG	TH K.S.I.	ELONG	ATION %	COND	% IAC:
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P-860-155D (06/11)





Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

46544

8,370

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

COPPER&BR F60501 4075 INCLUSION SERIAL#: 20121119F60501 CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 5400157805 110-512723 ALLOY TEMPER GAUGE WIDTH LENGTH 7075 00 T651 4.00000 73.000 134.750 ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS-QQ-A-250/12 PART NUMBER B/L NUMBER DATE SHIPPED ALFLR00369 F60500 11/20/12 WEIGHT SHIPPED NO. OF PIECES GOVT. CONTRACT NO.

2

CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

PAGE

1 OF

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

_																	
	LOT	TEST	NO. OF	ULTIMATI	STRE	NGTH K.S.I.	YIE	LD STRE	NGTH K.S.I.		ELO	NGATIO	N %		COND	% I <i>F</i>	CS
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CHEM COMP	ISEE AG	TUAL C	немі	CAL CCI					REMAINDER		No.		WICA.	MILA.	WAA.	MAX.	MAX.

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402202007

Part:

P-860-155D (06/11)

PO:

PEC# 244320

Wgt: 182.000 LB Date 12/12/2012 John Bunboth





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

IN

ő I

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

WEIGHT SHIPPED

8,370

46544

COPPER&BR F60501 4075

NO. OF PIECES

INCLUSION

SERIAL#: 20121119F60501

PAGE 2 OF

CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO 5400157805 110-512723 TEMPER GAUGE WIDTH LENGTH 7075 4.00000 134.750 0.0 T651 73.000 ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS-QQ-A-250/12 B/L NUMBER DATE SHIPPED PART NUMBER ALFLR00369 F60500 11/20/12

2

GOVT, CONTRACT NO.

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Rodney J. Felty - Laboratory Manager

LOT	TEST	NO. OF	ULTIMATE	STRENG	TH K.S.I.		YIELD	STRENG	TH K.S.I.		ELC	NGATION	%				AC:
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ALLOY	MIN. M	AX. M	IN. MAX.	MIN.	MAX.		MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TO M
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P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402202007

Part:

PO:

PEC# 244320

Wgt: 182.000 LB

Date 12/12/2012

John R. Bembetts





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

COPPER & BRASS SALES P.O. BOX 5116 MI

SOUTHFIELD

48086

46544

F60501 4075

INCLUSION

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are

PAGE

3 OF

on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

COPPER&BR SERIAL#: 20121119F60501 CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 5400157805 110-512723 ALLOY TEMPER GAUGE WIDTH LENGTH 7075 00 T651 4.00000 73.000 134.750 ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS-QQ-A-250/12 PART NUMBER B/L NUMBER DATE SHIPPED 11/20/12 ALFLR00369 F60500 WEIGHT SHIPPED NO. OF PIECES GOVT. CONTRACT NO. 2 8,370

LOT NUMBER	TEST	NO. OF	ULTIMATE	STRENGT	H K.S.I.	YIELD	STRENGTH	l K.S.I.	ELON	GATION %			ACS
INUMBER	DIRECTION	TESTS	MIN.		MAX.	MIN.		MAX.	MIN.	MAX.	MIN	M	łΧ
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			CHE	MIST:	RY BY	OES: A	RKSP	ARK					
CHEMIS	TRIES	REPO	RTED I	N PE	RCENTA	GE BY	WEIG	HT.					
WHEN F	RACTUE	E TO	UGHNES	S TE	ST REÇ	UIRED,	TES	red pe	R ASTM	E399.			
WHEN 1	ENSILE	TES	T REQU	IRED	, TESI	ED PER	ASTI	M E8;	B557.				
Mark H	aperwo	rk:	ALFLR0	0369								•	
DUNS N	umber:	09	057014	9; C	AGE Co	de: 1	YWL9						
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	SILICON		"END	COPPI	-	ICATIO	N ''	7A 14 89 SIUM CH	S/ Q	/12/18 ZINC	TITANIUM	0	HERS
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,	MIN. MA		IRON	COPPI MIN.	ER M	ANGANESE	MAGNE		ROMIUM	ZINC			

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

2402202007 Del:

Part:

PEC# 244320

Wgt: 182.000 LB

12/12/2012 Date

John Bunbeth

CERTIFIED INSPECTION REPORT

Alcoa Inc.

1427376 Ship Date 2012-09-06

> 0 B.L. No.

7329333

Invoice No

Alcoa No. Item 1000408477-4

P.O. No./Govt Contract No.

5400151575 Ln#: 0040

С&В

G041094912R10

Customer Alcoa Item

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

6

RIVERDALE, IA.

DP-08477-4

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full writhout the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Per:

Rod of Woodald

Rob Woodall

Director of Manufacturing Davenport Works

Terrence Thom uality Assurance Manager

Page 1 of 2

Ship To: COPPER & BRASS SALES INC 1015 SAINT JEROME ST. MISHAWAKA 46544 IN

Item Description

1.03 IN TK (+.094 -0.00) X 60.5 IN W (+.375
1.03 IN TK (+.094 -0.00) X 60.5 IN W (+.375
1.00) X 144.5 IN IN (+.5 -0.0) CAT X 090893-9 (N) A/T 7075
T651 RECTANGULAR MILL FINISH, SAWED ALFLR00994. AMS-QQ-A
250/12 IS 2007 EXC MRK AMS4045 REV K

EXC MRK ASTMB209 REV 10 (MARKED))

KRAFT PAPER INTERLEAVED

MAX GROSS SKID WGT: 4500 LB QUAN TOL +/
30 % CQR 0210606 REV 10 CUST REQ 12-09
5 *** W/E 12-09-08 ***

5 4 U D H

439793 439793

212035 588502 212035

212034

588502

5723

439793

439801 439801 Num

Package Ticket

Lot

PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ- A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12F. PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/12 F ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12. Notes for CQR: 0210606.10

CQR: 0210606.10 -Specification Limits -

Tmpr Dir KSI KSI PCT T651 Long Transv. Max Min 77.0 67.0 6

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402202011

63.000 LB

Wgt:

Part:

PO: PEC# 244320

Date

12/11/2012

Johns. Bushoth

CERTIFIED INSPECTION REPORT

Alcoa Inc.

2012-09-06 1427376 Ship Date

00000 Invoice No.

B.L. No. 7329333

P.O. No./Govt Contract No. 5400151575 Ln#: 0040

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

RIVERDALE, IA.

Ship From:

Alcoa No. Item

1000408477-4

DP-08477-4

С&В Customer Alcoa Item G041094912R10

Rodd. Woodall

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Per:

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Rob Woodall
Director of Manufacturing Davenport Works

Terrence Thom Quality Assurance Manager

Page 2 of 2

THE PERSON OF THE PROPERTY OF			2 2 2 3					
	try [BRF DF]	ifving Coun	a Oual-	ed States or	the Unit	Was melted in the United States or a Qualifying Country [RRF DFARS 225 872 1	This material	
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			MN M	CU		Chemical - OES	Cast Number	
		11.3	76.3					_
		11.3	76.9	85.6		Transv. 2	T651 Long	
		PCT	KSI	KSI	Test	Test KSI KSI PCT		
		EL4D	TYS	UTS	V-V	N		
^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Results	Quantometer	raphy,	al, Metallog	l, Physic	 Mechanica. 	Lot: 588502	
	.7 0.02	.5 0.19 5	0.02 2	0.28 1.7 0.02 2.5 0.19 5.7 0.02	0.05	Actuals	H9017044	
	TI	G CR Z	NN NW	FE CU	SI	Chemical - OES	Cast Number	
4		11.2	77	85.6				
8		10.9	76.8	85.2		Long Transv. 2	_T651Long_	1
		PCP-		Salara Contractor Cont		n	Harris Di a	
10		EL4D	TYS	UTS	0->	N.		
	Results	Quantometer	raphy,	al, Metallog	l, Physic	 Mechanica 	Lot: 212035	
	5.7 0.02	.5 0.19 5	0.02 2	0.28 1.7	0.05	Actuals	H9017044	
, √√	IN TI	G CR Z	MN MM	FE CU	es si	Chemical - OES SI FE CU MN MG CR ZN TI	Cast Number	
) p							•	
N/2		11.5	76.6					
		11.4	76.6			Transv. 2	g	
•		PCT	KSI	KSI	Test	H	Impr Dir	
		EL4D	TYS	UTS	o-	N		
	Results	Quantometer	raphy, '	al, Metallog	l, Physic	 Mechanica 	Lot: 212034	
REMAIN		.18 5.1	2.1 0	1.2		Min	Alloy 7075	
5	20 0.05 0.1	.28 6.1 0.2	0 2.9 0	0.50 2.0 0.3	0.40	Max		
al Aluminum	Each Total	R ZN TI	MG C	FE CU MN	SI	osition SI FE CU MN MG CR ZN TI Each 1	Chemical Composition	
nee needed and the ne	Other Other							
	 			s (cont.)	ion Limit	CQR: 0210606.10 -Specification Limits (cont.)	CQR: 0210606.	
		•						

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402202011

PO:

Wgt:

63.000 LB

Part:

Date 12/11/2012 PEC# 244320

CERTIFIED INSPECTION REPORT

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictibus, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

Alcoa No. Item

Invoice No

DP-20518-7

P.O. No./Govt Contract No. 7456306 Customer Alcoa Item 00000 1000420518-7

2012-10-25 1447780 Ship Date

5400155433 Ln#: 0070

C&B

G041014515R08

Rob Woodall

Director of Manufacturing Davenport Works Rod Wooded

uality Assurance Manage Terrence Thom

Page \vdash of 2

Ship To: COPPER & BRASS SALES INC 1015 SAINT JEROME ST. MISHAWAKA 46544 IN GROSS SKID WGT: 6000 LB QUAN TOL +/-40 % CQR 0164707 REV 07 CUST REQ 12-10-17 *** W/E 12-10-20 *** Item Description

6.03 IN TK (+.260 -0.00) X 60.5 IN W (+.500
6.03 IN TK (+.260 -0.00) X 60.5 IN W (+.500
0.000) X 144.5 IN LN (+.5 -0.0) (N) A/T 7075
7651 RECTANGULAR MILL FINISH, SAWED. EXC MRK, PROP, TK AMS-QQ-A
250/12 IS 2007 EXC MRK, PROP, TK AMS4045 REV K: EXC MRK, PROP,

TK ASTMB209 REV 10 ((MARKED)) KRAFT PAPER INTERLEAVED MAX

Inspector Clock Numbers

Quantity

MOM

Num

Package Ticket

Lot 633884

461717

5516 Weight

47338

12/18

Tmpr T651 Tmpr T651 CQR: Lot: Alloy 7075 Chemical Composition 633884 Long Transv. 0164707.7 Dir Long Transv. - Mechanical, Physical, Metallography, Quantometer Results ---Specification Limits Max Min Max Test 2 No-> VIS KSI 59 SI FE CU MN MG CR ZN TI Bach Tota: 0.40 0.50 2.0 0.30 2.9 0.28 6.1 0.20 0.05 0.15 1.2 2.1 0.18 5.1 TYS KSI 40 UTS KSI 69.3 70.8 EL4D PCT TYS KSI 56.3 58.8 PCT 9.2 8.4 EL4D Other Other Total

From: ThyssenKrupp Materials

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402202015

262.000 LB

Wgt:

Part:

PEC# 244320

Date

12/12/2012

CERTIFIED INSPECTION REPORT We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Alcoa Inc.

1447780 Ship Date 2012-10-25

B.L. No. 7456306

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From:

RIVERDALE, IA.

Invoice No 1000420518-7 Alcoa No. Item

DP-20518-7

P.O. No./Govt Contract No. 5400155433 Ln#: 0070 C&B Customer Alcoa Item G041014515R08

Page 2 of 2

Quality Assurance Manage

Rob Woodall

Director of Manufacturing Davenport Works

Rod of Wooded

Cast Number H9047031 Lot: 633884 - Mechanical, Chemical - OES Actuals Physical, Metallograpy, Quantometer Results (cont.) SI FE CU MN MG CR ZN TI 0.07 0.29 1.6 0.02 2.5 0.19 5.6 0.02

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

14 12/18

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402202015

Wgt: 262.000 LB

Part:

PO: Date 12/12/2012 PEC# 244320





Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

46544

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

B33204 4075 PER&BR

INCLUSION

SERIAL#: 20120730B33204 PAGE 1 OF

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

COLLUİV	1011			, 0 ==:				_ '' '
CUSTOMER PURC	CHASE ORDER	NO. & ITEM			Constellium OR	DER NO.		
5400141	1009				110-51	2567		
ALLOY	CLAD.	TEMPE	-R	GAUGE	WIDTH	LENG	HTE	
7075	00	T651	L	2.03000	60.50	00 144	, 5	00
ITEM ORDERED							1-	
MOLD PI	LATE-D	ST GE	3					ΙI
SPEC PI	LATE, S	SAWED		MILL				
CUSTOMER SPEC	CIFICATION							
AMS-QQ-	-A-250,	12						
PART NUMBER			B/L	NUMBER		DATE SHI	IPPE	7
ALFLR00	0999			B332	00	07/31	./1	2
WEIGHT SHIPPED	NO.	OF PIECES		GOVT. CONTRAC	T NO.		•	
7.	,520		4				•	
							•	
LOT	TEST	NO. OF	ULTI	MATE STRENGTH K	.S.I.	YIELD STR	ENGT	H K.S.
NUMBER	DIRECTION	TESTS	MII	d M	ΔY	MIN	\Box	MA

LOT	TEST	NO. OF	ULTIMATE	STRENG	TH K.S.I.		YIEL	D STR	NGT	H K.S.I.		ELONGAT	rion %			δ I <i>F</i>	
NUMBER	DIRECTION	TESTS	MIN.		MAX.		MIN.			MAX.	_	MIN.	MAX.	11/	IIN	MAX	7
276151	LT	2	**** T 80.4		80.9		70.	2		70.7		*** 13.5	13.5				
All n	ateria	l co	ntaine	d in	lot	276	151	wa	s	cast	and	d manuf	acture	d ir	n the	USZ	A.
ALL I	OTS ON	TH	S CERT	IFIC	ATION	AL	so 	CON	FC	RM TC		HE FOLL	OWING	REQU	JIREM	ENTS	5
		ASI	м в209	-10,	AMS 4	045	K					DAS 14	12/12/	1,9			
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C ALLOY	SILICON		IRON	COP	PER	MANGA	NESE	1	/AGN	IESIUM	CHR	ОМІИМ	ZINC	+	MUIN	OTH	
	 		IIN. MAX.	MIN.		MIN.	MAX.	MII	N.	MAX.	MIN.	MAX. M	IN. MAX.	MIN.	MAX.	EACH MAX.	MA
SEE A	TOAL	J111111.		ITE OF	1111				,								
'										MAINDER							

P-860-155D (06/11)

Part:

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

2402202018 · Del:

PEC# 244320

Wgt: 641.000 LB

12/11/2012 Date

PO:

John R. Zamberr.



46544



CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

P.O. BOX 5116 SOUTHFIELD

MI

COPPER & BRASS SALES

48086

COPPER&BR

B33204 4075

INCLUSION

SERIAL#: 20120730B33204

PAGE

2 OF

CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO. 5400141009 110-512567 ALLOY TEMPER GAUGE WIDTH 7075 00 2.03000 T651 60.500 144.500 ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL CUSTOMER SPECIFICATION AMS-QQ-A-250/12 PART NUMBER B/L NUMBER DATE SHIPPE ALFLR00999 07/31/12 B33200 WEIGHT SHIPPED NO. OF PIECES GOVT. CONTRACT NO. 7,520

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

CERTIFICATION

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

LOT	TEST	NO. OF	ULTIMATE S	FRENGTH K.S.I.	T	YIELD S	STRENGTI	HK.S.I.	ELONG	ATION %	CONL) % II	CS
NUMBER	TEST DIRECTION	NO. OF TESTS	MIN.	MAX.		MIN.	V.	MAX.	MIN.	MAX.	MIN	MAX	ζ
276151	C SI= CR=	0.06	A· FE=	0.13 5.60	CU	J= 1 [= 0	45 02	OSITIC MN= ZR=	0.08 0.01 MAX. AL	MG= 2.	.50 NDER		
										<u> </u>			
C ALLOY	SILICON MIN. MA	AX. MII	IRON N. MAX. M	COPPER IN. MAX.	MANGA MIN.		MAGNE MIN.		HROMIUM	ZINC	TITANIUM	OTHE	
M I I			CAL COM			MAX.	MIN.	MAX. M	IN. MAX. I	MIN. MAX.	MIN. MAX	EACH MAX.	MAX
						ALUMI	NUM REM	AINDER					

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

2402202018 Del:

Part:

PEC# 244320

Wgt: 641.000 LB

12/11/2012 Date

PO:

John Bunboth





Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA ΙN

COPPER & BRASS SALES P.O. BOX 5116 SOUTHFIELD MI

48086

COPPER&BR

5400141009

CUSTOMER SPECIFICATION

ALFLR00999

ALLOY

7075

TEM ORDERED

PART NUMBER

WEIGHT SHIPPED

46544

CUSTOMER PURCHASE ORDER NO. & ITEM

MOLD PLATE-DIST GE

SPEC PLATE, SAWED

AMS-QQ-A-250/12

7,520

00

B33204 4075

GAUGE

MILL

B/L NUMBER

2.03000

B33200

GOVT. CONTRACT NO.

TEMPER

T651

NO. OF PIECES

INCLUSION

WIDTH

Constellium ORDER NO.

60.500

110-512567

SERIAL#: 20120730B33204

144.5b0

DATE SHIPPED

07/31/12

CERTIFICATION

PAGE

3 OF

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA

		.,						-	-							
LOT	TEST	NO. OF	ULTIMATE	STRENG	TH K.S.I.		YIELD	STRENG	TH K.S.I.		ELONG	ATION %	Ĩ	COND	% I.	ACS
NUMBER	TEST DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.	MAX.		MIN	MA	X
APPROT	AL OF CORDIN	THE G OF	' SHALL LABORA' ' FALSE MAY BE	rdry , Fi	OR CTIT	AUT! IQU:	HORIZ S, OR	ED (QUALI AUDUL	TY ENT	DELEGA' STATE	re. Ments (OR E			
CHEMIS	TRIES	REPO	CHEI RTED II				ES: A E BY									
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			T REQUI			STE	D PER	. AS	rm E8	; B	557 DAS	2/K	19			
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			"END	OF	CERT	IFIC	CATIO	N"								
C ALLOY	SILICON		IRON	COPF	ER	MANG	ANESE	MAG	VESIUM	CHR	MUIMC	ZINC	ТП	ANIUM	ОТН	
H	MIN. MA		n. max.	MIN. 1POS	MAX. ITIC	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN. MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX
P-860-155D (06/11)					-	,	ALUN	IINUM R	MAINDER							

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402202018

Part:

Wgt: 641.000 LB \

PO: PEC# 244320

12/11/2012

John Bunbeth



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18600

Purchase Order Date 12/06/12 PO Print Date 12/06/12

Page Number 1 of 3

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

Contact Name

Vendor Phone

905 669 9444

Vendor Fax

905 738 9033

Vendor Account Nbr

Buyer

Requisition Nbr Tax Resale Nbr

Terms

CAD Currency

FOB

Destination-Collect

Chantal Lavoie

10127-2607

Net 30

Ship To:

DART AEROSPACE LTD

1270 ABUNDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Line Nbr Reference

Revision ID

Vendor Part Number

M7075T6B1.500X1.500

008

Description/ Mfg ID

12/17/12

Yes

Req Qty/ Req Date/ Taxable Unit of Measure

Ship Method

Yours ppd

12.00

Unit Price

\$18.7500

Extended Price

\$225.00

7075 T6 BAR 1.500 x 1.500

Special Inst:

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR

AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR

PER AMS-QQ-A-200/11 OR QQ-A-250/12

CUT FROM PLATE

M7075T6B1.500X8.500

7075-T6 BAR 1.50℃ ≥

8.500"

12/17/12

12.04

Yours ppd

\$76.9103

\$926.00

Yes

Special Inst:

MATERIAL: 7075-T6 OR

T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS

4122/4123/4186/4187 OR

PER AMS-QQ-A-200/11 OR QQ-A-250/12

CUT FROM PLATE

PO Instructions:

PLEASE NOTE RECEIVING DEPARTM WILL BE CLOSE 13 AND 14 OF

DECEMBER

No substitution or deviation without consent.

Certificate of Conformity or Material

Change Nbr:

hange Date:

12/06/12

Certification required - YES

NO



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18600

Purchase Order Date 12/06/12 PO Print Date 12/06/12

Page Number 2 of 3

Order From: VC-COP001 THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA Buver Chantal Lavoie Contact Name Requisition Nbr **Vendor Phone** 905 669 9444 10127-2607 Tax Resale Nbr 905 738 9033 Vendor Fax Net 30 Terms Vendor Account Nbr Currency ĆAD FOB Destination-Collect 7075-T6 BAR 1.750" X M7075T6B1.750X04.500 12/17/12 Yours ppd \$49.1694 \$592.00 4.500" Yes Special Inst: MATERIAL: 7075-T6 OR T651/T6510/T6\$11/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE M7075T6B3.000X7.500 12/17/12 \$107.8073 \$1,298.00 7075-T6 BAR 3.000' X _ 12.04 Yours ppd 7.500" Yes Special Inst: MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE M7075T6B4.000X4.500 7075-T6 BAR 4.900° X 12/17/12 Yours ppd \$116.5000 \$932.00 4.500" Yes Special Inst: MATERIAL: 7075-T6 OR T651/T6510/T6\$11/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

PO Instructions:

PLEASE NOTE RECEIVING DEPARTMENT WILL BE CLOSE 13 AND 14 OF

DECEMBER

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required YES NO

Change Nbr:

1

12/06/12 Change Date:



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18600

Purchase Order Date 12/06/12 PO Print Date 12/06/12

Page Number 3 of 3

•	Order From: THYSSENKRUPP MATERI O/A VPK METAL- C/O T27 TORONTO, ON M5W 5V8 CA	540/PO BOX)	C-COP001 AL"A"				
	Contact Name Vendor Phone 905 669 Vendor Fax 905 738 Vendor Account Nbr				nisition Nbr Resale Nbr ns ency	Chantal Lavoie 10127-2607 Net 30 CAD Destination-Colle	ect	- X
6	M7075T6B6.000X1.000	7075-T6 BA	AR 6.000" X	12/17/12 Yes	8.00 f	Yours ppd	\$41.5000	\$332.00
			Special Inst:	AS PER AMS-Q 4122/4123/4186/	11/T62 ALUMINI Q-A-225/9 OR AN 4187 OR -200/11 OR QQ-A	1S		
7	M7075T6B6.000X6.000	7075-T6 B <i>a</i> 6.000"	AR 6.000' X	12/17/12 Yes	V 6.00	Yours ppd	\$197.3333	\$1,184.00
			Special last:	AS PER AMS-Q 4122/4123/4186/	11/T62 ALUMINI Q-A-225/9 OR AN 4187 OR 200/11 OR QQ-A	1S		
8	M7075T6B7.000X2.000	7075-T6 Ba 2.000"	AR 7.000" X	12/17/12 Yes	J 36.12	Yours ppd	\$77.4086	\$2,796.00
			Special Inst:	MATERIAL: 707 T651/T6510/T65 AS PER AMS-Q 4122/4123/4186/	11/T62 ALUMINI Q-A-225/9 OR AN 4187 OR 200/11 OR QQ- <i>A</i>	1S	(1) J	÷
	4	A			,	PC	O Total:	\$8,285.00

PO Instructions: DECEMBER

PLEASE NOTE RECEIVING DEPARTMEN WILL BE CLOSE 13 AND 14 OF

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required /YES NO

12/06/12 Change Date:

Change Nbr:

I